



Appendix 2

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5. A linearly flexible stent for implanting within a body vessel comprising:

at least three turns defining a generally cylindrical body, the turns being generally independently expandable in the radial direction and generally aligned on a common longitudinal axis;

each of the turns other than the first and the last having two adjacent turns spaced in opposite axial directions

each of the turns defining the generally cylindrical body having an undulating pattern of zigzags or waves, each of the turns defining a generally cylindrical body being out of phase with the undulating pattern of each of the adjacent turns defining a generally cylindrical body; and

each turn defining a generally cylindrical body being interconnected to one of the adjacent turns so that the turns defining a generally cylindrical body form a longitudinally flexible stent.

6. The stent of claim 5, wherein the distance between adjacent turns defining a generally cylindrical body is less than the width of either a single peak or a single valley.

7. The stent of claim 5, wherein each of the turns defining a generally cylindrical body includes at least three peaks and three valleys.

8. The stent of claim 5, wherein the peaks and valleys have a substantially U-shaped configuration.

9. A longitudinally flexible stent for implanting in a body lumen, comprising;

a first turn defining a generally cylindrical body, a second turn defining a generally cylindrical body, a third turn defining a generally cylindrical body, up to an Nth turn defining a generally cylindrical body, the turns being generally



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independently expandable in the radial direction and generally aligned on a common longitudinal axis;

each of the turns having an undulating pattern of peaks and valleys; the undulating pattern of each turn being out of phase with the undulating pattern of each of the adjacent turns; and

each of the turns being interconnected to one of the adjacent turns so that the turns defining a generally cylindrical body form a longitudinally flexible stent.

10. The stent of claim 9, wherein the distance between adjacent turns defining a generally cylindrical body is less than the width of either a single peak or a single valley.

11. The stent of claim 9, wherein each of the turns defining a generally cylindrical body includes at least three peaks and three valleys.

12 The stent of claim 9, wherein the peaks and valleys have a substantially U-shaped configuration.